

# CINEVISION DVR1000 User's Guide



## Safety Precautions



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



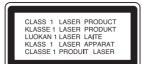
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

WARNING: TO REDUCE THE RISK OF FIRE OR ELEC-TRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

**CAUTION:** TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT. **ATTENTION:** POUR ÉVITER LES CHOC ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

**WARNING:** Do not install this equipment in a confined space such as a bookcase or similar unit.

**NOTE TO CABLE/TV INSTALLER:** This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.



#### CAUTION:

This DVD+VCR employs a Laser System.

To ensure proper use of this product, please read this owner's manual carefully and retain for future reference. Should the unit require maintenance, contact an authorized service location.

Use of controls, adjustments, or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. DO NOT STARE INTO BEAM. **CAUTION:** The apparatus should not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, should be placed on the apparatus.

FCC WARNING: This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

#### **REGULATORY INFORMATION: FCC Part 15**

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the product is operated in a residential installation. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the product and receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### **NOTES ON COPYRIGHTS:**

It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyrighted material without permission.

This product uses copyright protection developed by Macrovision. Copy protection signals are recorded on some discs. When recording and playing the pictures of these discs on a VCR, picture noise will appear.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

**SERIAL NUMBER:** The serial number is found on the back of this unit. This number is unique to this unit and not available to others. You should record requested information here and retain this guide as a permanent record of your purchase.

Model No. \_ Serial No. \_



# **IMPORTANT SAFETY INSTRUCTIONS**

# CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS IN THIS OWNER'S MANUAL AND MARKED ON THE PRODUCT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE.

This product has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this product will protect you if you observe the following procedures for installation, use, and servicing. This product does not contain any parts that can be repaired by the user.

#### DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

- 1. Read these instructions. All these safety and operating instructions should be read before the product is operated.
- 2. Keep these instructions. The safety, operating and use instructions should be retained for future reference.
- **3. Heed all warnings. -** All warnings on the product and in the operating instructions should be adhered to.
- 4. Follow all instructions. All operating and use instructions should be followed.
- 5. Do not use this product near water. For example: near a bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement; or near a swimming pool; and other areas located near water.
- Clean only with dry cloth. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. -Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from over- heating. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the product.
- 11. Only use attachments/accessories specified by the manufacturer.



- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with apparatus. When a cart is used, use caution when moving the cart/product combination to avoid injury from tip-over.
- 13. Unplug this product during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the product, the product has been exposed to rain or moisture, does not operate normally, or has been dropped.

INTRODUCTION

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# About the symbols for instructions

 $\underline{\wedge}$  Indicates hazards likely to cause harm to the unit itself or other material damage.



 $\ensuremath{\,\overline{\!\!\mathcal M\!}}$  Indicates special operating features of this unit.

 $\boldsymbol{\mathcal{T}}$  Indicates tips and hints for making the task easier.



## **Before Use**

### **Playable Discs**

VIDEO	DVD (8 cm/12 cm disc)
	Audio CD (8 cm/12 cm disc)

In addition, this unit can play CD-Rs or CD-RWs that contain audio titles, MP3 or JPEG files.

#### N otes

- Depending on the conditions of the recording equipment or the CD-R/RW disc itself, some CD-R/RW discs cannot be played on the unit.
- The unit cannot play discs that contain data other than MP3 and CD-DA data.
- Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.
- Do not use irregularly shaped CDs (e.g., heart-shaped or octagonal). The unit may malfunction.

# N otes on DVDs

Some playback operations of DVDs may be intentionally fixed by software manufacturers. As this unit plays DVDs according to disc content designed by the software manufacturer, some playback features of the unit may not be available or other functions may be added. Refer also to the instructions supplied with the DVDs. Some DVDs made for business purposes may not be played on the unit.

#### Regional code of this DVD+VCR and DVDs

This DVD+VCR is designed and manufactured for playback of Region 1 encoded DVD software. The region code on the labels of some DVD discs indicate which type of DVD+VCR can play those discs. This unit can play only DVD discs labeled 1 or ALL. If you try to play any other discs, the message "Check Regional Code" will appear on the TV screen. Some DVD discs may not have a region code label even though their playback is prohibited by area limits.

# Note on DTS-encoded CDs

When playing DTS-encoded CDs, excessive noise may be heard from the analog stereo output. To avoid possible damage to the audio system, turn down the volume before playing back such discs, adjust the volume gradually, and keep the volume level low. To enjoy DTS Digital Surround<sup>™</sup> playback, an external 5.1 channel Digital Surround<sup>™</sup> decoder system must be connected to the digital output of the unit.

#### **Disc-related Terms**

#### Title (DVD only)

The main film content or accompanying feature content or music album.

Each title is assigned a title reference number enabling you to locate it easily.

#### Chapter (DVD only)

Sections of a picture or a musical piece that are smaller than titles. A title is composed of one or several chapters. Each chapter is assigned a chapter number to enable you to locate the chapter you want. Depending on the disc, the DVD may not be divided into chapters.

#### Track (Audio CD only)

Sections of a musical piece on an audio CD. Each track is assigned a track number, enabling you to locate the track you want.

#### **Remote Control Battery Installation**



Detach the battery cover on the rear of the remote control, and insert two AAA batteries with 
 and 
 aligned correctly.

### ∠!\Caution

Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.).

#### Remote Control Operating Range

Point the remote control at the remote sensor and press the buttons.

- Distance: About 23 ft (7 m) from the front of the remote sensor
- Angle: About 30° in each direction of the front of the remote sensor

#### **IMPORTANT NOTE:**

SPENT OR DISCHARGED BATTERIES MUST BE RECYCLED OR DISPOSED OF IN A SAFE MANNER IN COMPLIANCE WITH ALL APPLICABLE LAWS. FOR DETAILED INFORMATION, CONTACT YOUR LOCAL COUNTY SOLID WASTE AUTHORITY.

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DTS and DTS Digital Out are trademarks of Digital Theater Systems, Inc.



# **Before Use (Continued)**

#### Precautions

#### Handling the unit

#### When shipping the unit

The original shipping carton and packing materials come in handy. For maximum protection, re-pack the unit as it was originally packaged at the factory.

#### When setting up the unit

The picture and sound of a nearby TV, VCR, or radio may be distorted during playback. In this case, position the unit away from the TV, VCR, or radio, or turn off the unit after removing the disc.

#### To keep the surface clean

Do not use volatile liquids, such as insecticide spray, near the unit. Do not leave rubber or plastic products in contact with the unit for a long period of time. They will leave marks on the surface.

#### Cleaning the unit

#### To clean the cabinet

Use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents such as alcohol, benzine, or thinner, as these might damage the surface of the unit.

#### To obtain a clear picture

The DVD+VCR is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn, the picture quality will be poor.

Regular inspection and maintenance are recommended after every 1,000 hours of use. (This depends on the operating environment.)

For details, please contact your nearest dealer.

#### **Notes on Discs**

#### Handling discs

Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints will not get on the surface.

Do not stick paper or tape on the disc.



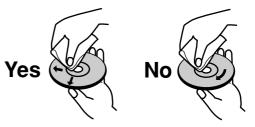


#### Storing discs

After playing, store the disc in its case. Do not expose the disc to direct sunlight or sources of heat, or leave it in a parked car exposed to direct sunlight, as there may be a considerable temperature increase inside the car.

#### **Cleaning discs**

Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.



Do not use strong solvents such as alcohol, benzine, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

#### **About Symbols**

#### About the $\odot$ symbol display

"  $\odot$  " may appear on the TV screen during operation. This icon means the function explained in this owner's manual is not available on that specific DVD video disc.

#### About the disc symbols for instructions

A section whose title has one of the following symbols are applicable only to those discs represented by the symbol.

DVD	D	VDs	5.
			~

CD	Audio CDS.

- MP3 MP3 Discs.
- JPEG JPEG Discs.

#### Selecting the Viewing Source

You must select one of your output sources (DVD or VCR) to view on the TV screen.

#### · If you want to view the DVD deck:

Press DVD on the remote control or DVD/VCR on the front panel until the DVD indicator on the front panel display lights and output from the DVD deck is viewed on the TV screen.

#### · If you want to view the VCR deck:

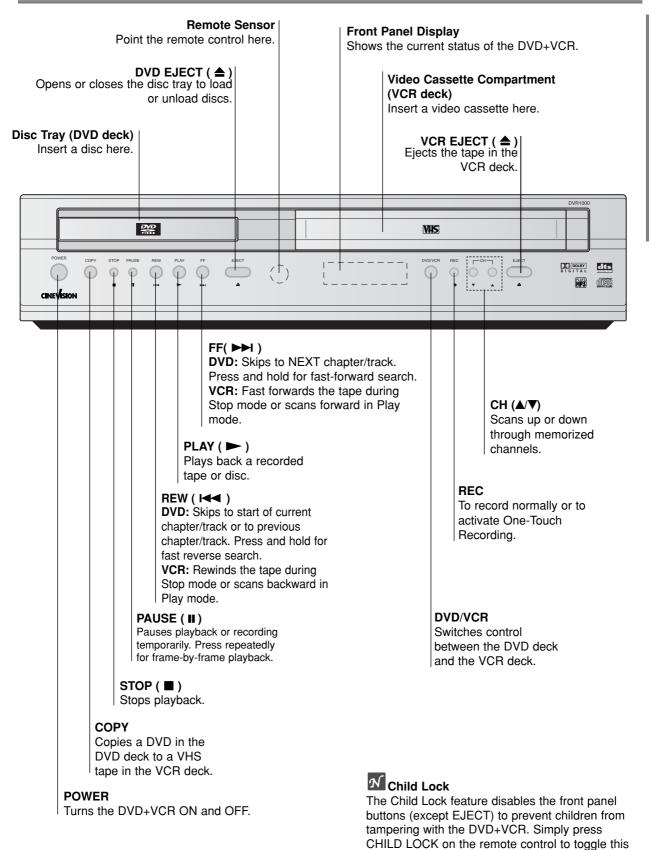
Press VCR on the remote control or DVD/VCR on the front panel until the VCR indicator on the front panel display lights and output from the VCR deck is viewed on the TV screen.

### N otes

- If you insert a disc while the DVD+VCR is in VCR mode, the DVD+VCR will switch to DVD mode automatically.
- If you insert a cassette tape without a record safety tab while the DVD+VCR is in DVD mode, the DVD+VCR will switch to VCR mode automatically.



# **Front Panel Controls**

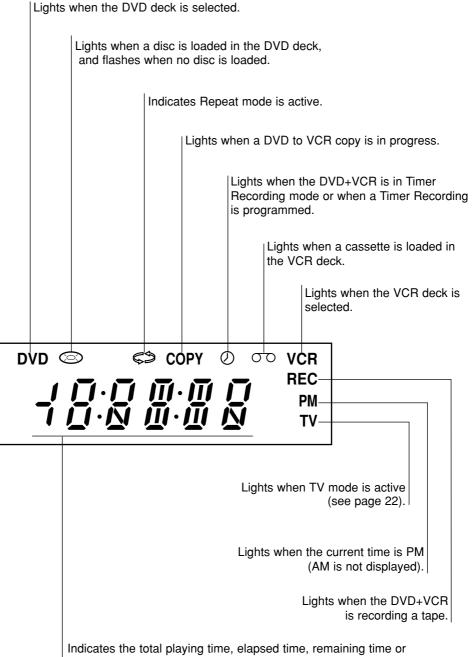


feature on and off.

 $\mathbf{D}$ 

# **Front Panel Display**

 $\mathbf{S}$ 



current deck status (Playback, Pause, etc).

# **Remote Control**

#### **DVD & VCR select buttons**

Sets the remote control to operate either the DVD deck or the VCR deck.

#### POWER

Turns the DVD+VCR ON and OFF.

#### TV/VCR

Switches between your TV tuner and the DVD+VCR tuner.

#### DISPLAY

Accesses the on-screen display. Switches among the clock, tape counter and tape remaining modes on the display.

#### ▲ ► ▲ ▼ (left/right/up/down)

- Selects menu items - CH(▲/▼): Selects channels on the VCR. TRK(+/-): Manually adjusts tracking.

#### SETUP/MENU

Opens or exits DVD setup menu and VCR menu.

#### TITLE •

Displays the disc's Title, if available.

#### PAUSE/STEP ( II ) •

Pauses playback or recording temporarily. Press repeatedly for frameby-frame playback.

STOP ( ■ ) •

Stops playback.

## **BFC** •

Records normally or activates Instant Timer Recording.

#### 0-9 number buttons

Selects channels or menu items.

#### AUDIO •

Selects DVD audio languages or CD audio channels (Stereo/Left/Right).

SUBTITLE • Selects available subtitle languages.

#### **REPEAT** • Repeats chapters, tracks, titles or all.

CHILD LOCK • Disables front panel buttons.

#### **RANDOM/SKIP** •

- Plays tracks in random order. - Scans ahead 30 seconds during VHS playback.

#### A-B/SP/SLP •

- Repeats playback between two points. - Selects recording speed

#### SEARCH • Displays MARK SEARCH menu.

#### EJECT

- Opens and closes the disc tray.

- Ejects the tape in the VCR deck.

#### INPUT

Selects the VCR deck's source (Tuner or AV).

#### ENTER

- Confirms menu selections.

- Displays functions on the TV screen.

**DISC MENU** Opens menu on a DVD disc.

RETURN

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V/VCF

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9) 0

VHS

Exits the setup menu.

#### • FF ( ►► )

DVD: Skips to NEXT chapter/track. Press and hold for fast-forward search. VCR: Fast forwards the tape during Stop mode or scans forward in Play mode.

• PLAY ( 🏲 ) Starts playback.

• REW (

DVD: Skips to start of current chapter/track or to previous chapter/track. Press and hold for fast reverse search. VCR: Rewinds the tape during Stop mode or scans backward in Play mode.

#### **PROG.PLAY**

Selects or exits Program menu.

#### CLEAR

Removes a track number on the Program menu or a mark on the MARK SEARCH menu. Also clears VCR tape counter settings.

#### ANGLE

Selects a DVD camera angle if available.

#### • ZOOM

Magnifies video image.

#### • MARK

Marks any point during playback.

#### LAST CH

Displays last channel viewed.

# N ote

The remote control uses one set of playback buttons to operate both decks:

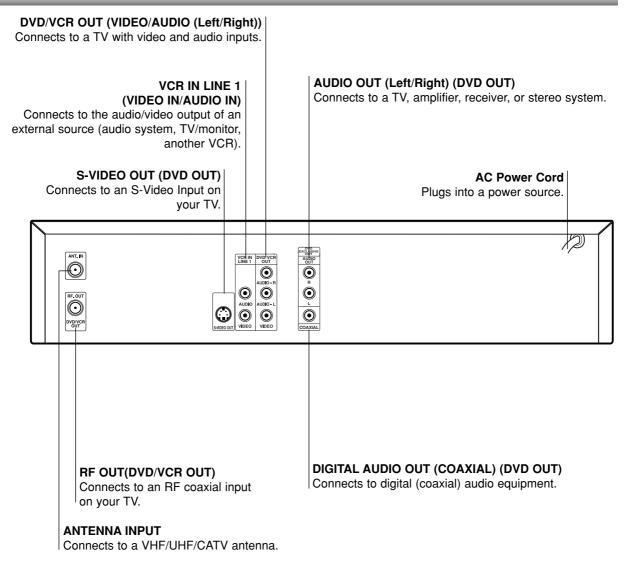
To use the VCR, first press the VCR button.

To use the DVD, first press the DVD button.





### **Connections Panel**



\_\_\_\_\_ Do no

Do not touch the inner pins on the rear panel jacks. Electrostatic discharge may cause permanent damage to the unit.

(10)

# Connections

## $\tau$ ips

- For instructions on the various ways to connect the DVD+VCR to your TV and other equipment, please refer to pages 11-13.
- Please refer to the manuals of your TV, VCR, stereo system or other devices as necessary to make the best connections.
- For better sound reproduction, connect the DVD+VCR's DVD/VCR AUDIO OUT jack to the audio in jacks of your amplifier, receiver, stereo or audio/video equipment. See Optional, Preferred TV Connections on pages 12-13.

# Caution

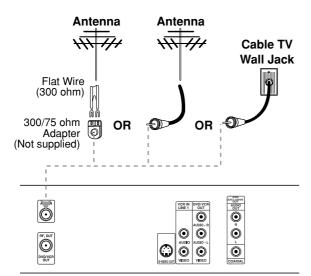
- Make sure the DVD+VCR is connected directly to the TV. Tune the TV to the correct video input channel.
- Do not connect the DVD+VCR's DVD/VCR AUDIO OUT jack to the phono in jack (record deck) of your audio system.
- Do not connect your DVD+VCR via your VCR. The DVD image could be distorted by the copy protection system.

# Connecting Antenna/Cable TV to DVD+VCR

- **1** Disconnect the antenna leads from the rear of your TV.
- Identify the type of cable from your antenna. If it is a round cable as illustrated, it is a 75 ohm coaxial antenna cable. This cable will connect directly to the jack marked ANT.IN on your DVD+VCR.

# $T_{ip}$

If your antenna lead wire is a flat type antenna cable, connect it to a 300-ohm to 75-ohm Antenna Adapter (not supplied), and slip the Adapter onto the ANT.IN jack. The Adapter does not screw on to the DVD+VCR, it just slips over the jack.



**DVD+VCR Connections Panel** 

#### Without Cable Box

If your cable wire is connected to your TV without a converter or descrambler box, unscrew the wire from your TV and attach it to the ANT.IN jack on the DVD+VCR. Use the supplied coaxial cable to connect between the DVD+VCR's RF.OUT jack and the 75 ohm antenna input jack on the TV. With this connection, you can receive all midband, super band, and hyperband channels.

#### With Cable Box

If a cable box is required in your cable system, follow the instruction below:

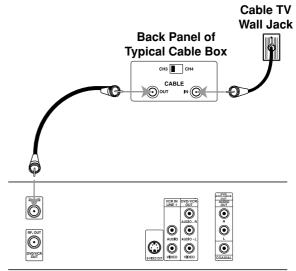
The cable hookup permits both TV and DVD+VCR operation.

#### To view or record CATV channels

- Tune the TV to the DVD+VCR output channel (CH 3 or 4).
   Set the DVD+VCR channel selector to the output channel of the cable box by using the CH (▲/▼) or number (0-9) of your DVD+VCR. (Example: CH3)
- 3 Select the channel to view at the cable box.

# N otes

- With this connection, you CANNOT record one program while viewing another.
- If you are using a cable box to tune channels, it is not necessary to do Auto Channel Programming as indicated on page 15.



**DVD+VCR Connections Panel** 

# **Connections (Continued)**

## **Basic TV Connections**

Make one of the following connections, depending on the capabilities of your existing equipment.

#### **RF** coaxial connection

Connect the RF.OUT jack on the DVD+VCR to the antenna in jack on your TV using the supplied 75-ohm coaxial cable (R).

#### Note

If you use this connection, tune the TV to the DVD+VCR's RF output channel (CH 3 or 4).

#### How to set the DVD+VCR's RF output channel

- 1. While the DVD+VCR is turned off, press and hold CH  $(\blacktriangle/\nabla)$  on the front panel for about five seconds. The unit will turn itself on and "RF 03" or "RF 04" appears on the front panel display.
- **2.** Use CH ( $\blacktriangle$ / $\bigtriangledown$ ) on the front panel or CH ( $\blacktriangle$ / $\checkmark$ ) on the remote control to change the RF output channel (CH 03 or CH 04).
- 3. Turn the DVD+VCR off and then on.
- 4. Set the TV to channel 3 or 4 depending on the RF output channel you selected. Now you can watch the DVD+VCR playback on CH3 or CH4 of your TV.

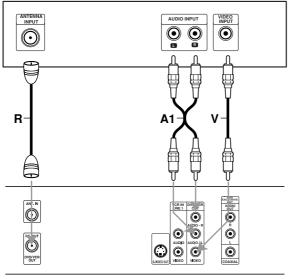
#### Audio/Video connection

- Connect the DVD/VCR VIDEO OUT jack on the DVD+VCR to the video in jack on your TV using the supplied video cable (V).
- Connect the Left and Right DVD/VCR AUDIO OUT jacks on the DVD+VCR to the audio left/right in jacks on your TV (A1) using the supplied audio cables.

## Note

If you use this connection, set the TV's source selector to VIDEO (sometimes referred to as Line, Aux, Input, etc.).

#### **TV Connections Panel**



**DVD+VCR Connections Panel** 

12

# **Optional, Preferred TV Connections**

#### Notes

• The connections described below are for DVD playback ONLY.

#### S-Video connection



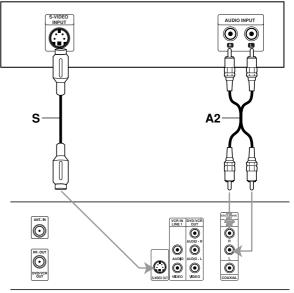
Connect the S-VIDEO OUT jack on the DVD+VCR to the S-Video in jack on your TV using the optional S-Video cable (S).

Connect the Left and Right AUDIO OUT jacks of the DVD+VCR to the audio left/right in jacks on your TV using the supplied audio cables (A2).

# N ote

If your TV has an S-video input, connect the DVD+VCR with an S-video cable. When using an S-video cable, do not connect the yellow video cable.

#### **TV Connections Panel**



**DVD+VCR Connections Panel** 

# **Connections (Continued)**

### **Optional, Preferred TV Connections**

#### Note

You can ONLY listen to DVD playback using the COAX-IAL (X), AUDIO OUT (A2) connections. The tuner and VCR will still be heard through the RF.OUT (R) or DVD/VCR AUDIO OUT (A1) jack. (See page 12.)

#### Connecting to an Amplifier Equipped with 2-Channel Analog Stereo or Dolby Surround

Connect the Left and Right AUDIO OUT (or DVD/VCR AUDIO OUT) jacks on the DVD+VCR to the audio left and right in jacks on your amplifier, receiver, or stereo system using the audio cables (for A1 or A2 connection) supplied.

#### Connecting to an Amplifier Equipped with 2-Channel Digital Stereo (PCM) or to an Audio/Video Receiver Equipped with Multi-channel Decoder (Dolby Digital<sup>™</sup>, MPEG 2, or DTS)

- Connect one of the DVD+VCR's DIGITAL AUDIO OUT jacks (COAXIAL X) to the corresponding in jack on your amplifier. Use an optional digital (COAXIAL X) audio cable.
- 2 You will need to activate the DVD+VCR's digital output. (See "Digital Audio Output" on page 19).

#### au Digital Multi-channel Sound

A digital multi-channel connection provides the best sound quality. For this you need a multi-channel Audio/Video receiver that supports one or more of the audio formats supported by your DVD+VCR (MPEG 2, Dolby Digital and/or DTS). Check the receiver manual and the logos on the front of the receiver.

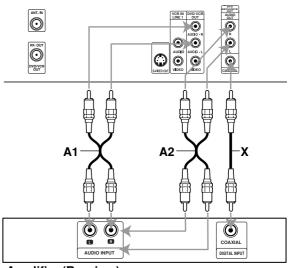
#### A Caution:

Due to the DTS Licensing agreement, the digital output will be in DTS digital out when DTS audio stream is selected.

# N otes

- If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all.
- 6-channel digital surround sound via the digital connection can only be obtained if your receiver is equipped with a digital multi-channel decoder.
- To see the audio format of the current DVD in the onscreen display, press AUDIO.

#### **DVD+VCR Connections Panel**



Amplifier (Receiver)

# Accessory Audio/Video (A/V) Connections to DVD+VCR

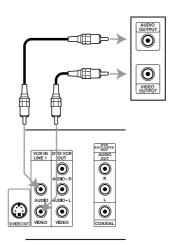
Connect the VCR IN LINE 1 jacks on the DVD+VCR to the audio/video out jacks on your

accessory component, using the optional audio/video cables.



Accessory Component: VCR, Camcorder, Video Camera, Satellite Receiver, Laser Disc Player

#### Accessory Device Jack Panel

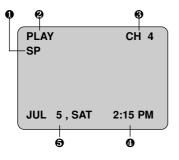


Rear of DVD+VCR

## VCR Operation Setup

# **On-Screen Display (OSD)**

The OSD provides feedback during VCR operation.



#### TAPE SPEED DISPLAY

Shows the current tape speed.

#### **@FUNCTION DISPLAY**

Indicates the function in progress.

❸ CHANNEL DISPLAY

Indicates the selected channel (or AV).

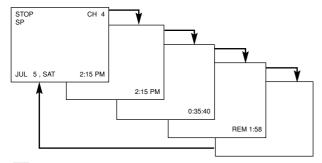
#### O DATE DISPLAY

Shows the current date (month/date/day of the week).

#### **☺** CLOCK/COUNTER/REMAIN DISPLAY

Shows the current time, the tape counter and remaining time on the tape.

Each press of the **ENTER** button changes the on-screen display in the following sequence:



# Notes

- On-screen displays appear for ~5 seconds.
- The clock, tape counter, and tape remaining modes will remain on-screen until you press **ENTER**.
- The tape counter and the remaining tape length indicator appear only when a cassette is inserted. Also, the remaining tape length indicator appears after any tape operation.

#### EASY INFORMATION

If Extended Data Service (XDS) signals are provided along with the normal TV signal in your area or during playback of a tape recorded with XDS signals, the station ID, program title, and program details are shown on the TV screen.

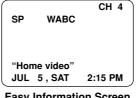
When viewing a channel with XDS signals, press **ENTER** and the station ID will appear on the TV screen. Press **ENTER** again and the program details will appear on the TV screen.

When viewing a tape recorded with XDS signals, press **ENTER** twice and the program title and program details will appear on the TV screen.

#### **PROGRAM DETAILS**

**LENGTH:** Indicates the run length of a program. **TIME REMAINING:** Indicates the remaining time of a program.

**RATING:** Indicates the rating of the current program (N/A, G, PG, PG-13, R, NC-17, X and Not Rated). The rating N/A means that the motion picture ratings are not applicable to this program.



PROGRAM DETAILS 'Home video''

LENGTH 01:00 TIME REMAINING 00:26 RATING N/A

Easy Information Screen (Station ID)

Easy Information Screen (Program details)

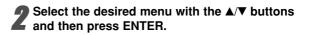
# On-Screen Menus Setup

The DVD+VCR on-screen menu system provides convenient access to Clock, Program, Tuning, and Setup options.

#### **Menu Selection**

Your VCR allows remote control adjustment of several features.

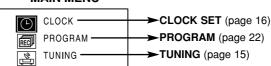
Press MENU to display the MAIN menu.



# Note

۶œ

Menus remain on-screen for 3 minutes.



SELECT ENTER ENTER TO EXIT PRESS MENU

Press MENU when finished.



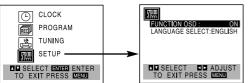
# VCR Operation Setup (Continued)

# VCR Setup Menu Options



# **2** Use A/V to select the SETUP menu, then press ENTER.

The SETUP menu will appear.



Use ▲/▼ to choose the desired option on the SETUP menu, then use ◄/► to choose the desired setting.

#### **FUNCTION OSD**

The DVD+VCR on-screen displays can be turned on or off.

Press ◄/► to set FUNCTION OSD to ON or OFF.

#### LANGUAGE SELECT

The DVD+VCR on-screen menus can be displayed in English, Spanish, or French.

 Press ◄/► to set LANGUAGE SELECT to ENGLISH, SPAN-ISH or FRENCH.

#### Press MENU when finished.

# **Channel Selection**

This DVD+VCR is equipped with a frequency synthesized tuner capable of receiving up to 181 channels. These include VHF channels 2-13, UHF channels 14-69 and CATV channels 1-125.

#### **Preparation:**

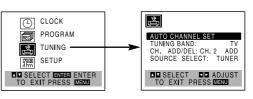
 Connect the DVD+VCR to the desired type of antenna or cable TV system, as shown in "Connecting Antenna/Cable TV to DVD+VCR" on page 11.

#### AUTO CHANNEL PROGRAMMING



# **2** Use $\blacktriangle \forall$ to select the TUNING menu, then press ENTER.

The TUNING menu will appear.



Press ▼ to choose the SOURCE SELECT option, then use </ > to select TUNER.

Use  $\blacktriangle \forall$  to choose the AUTO CHANNEL SET option, then use  $\blacktriangleleft \flat$  to search for channels.

The tuner will automatically scan for all available channels in your area and place them in the tuner's memory.

When AUTO CHANNEL SET is complete, make sure TUNING BAND is set appropriately (TV or CATV) in the TUNING menu.

Remember, TV is for over-the-air antenna reception, and CATV is for cable or wireless connection.



Press MENU to return to the TV screen.

Use CH ( $\blacktriangle$ / $\bigtriangledown$ ) on the remote control or CH ( $\blacktriangle$ / $\checkmark$ ) on the front panel to cycle the DVD+VCR through the channels in memory.

#### TO ADD OR ERASE CHANNELS FROM MEMORY

This feature allows you to add or erase channels in memory manually.

- Use ▼ to choose the CH. ADD/DEL option on the TUNING menu. Use 
   to select a channel to add or erase.
- 2 Use ENTER to add or erase the channel. Repeat steps 1 and 2 to add or erase channels.
- 3 Press MENU to return to the TV screen.

# VCR Operation Setup (Continued)

# Setting the Clock

The DVD+VCR gives you two ways to set the time and date: 1) Auto Clock Set, or 2) Manual Clock Set. The Auto Clock Set feature enables the DVD+VCR to set the clock while the DVD+VCR is turned off.

#### Things to know before starting

The clock uses the 12-hour system. Be sure to set AM and PM correctly (AM does not appear on the front panel display). The initial Clock Setting is JANUARY 1, 2003, 12:00 AM.

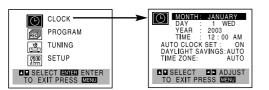
#### **Auto Clock Set**

The Auto Clock Set feature is set to ON at the factory. In the ON setting, the DVD+VCR searches for a channel carrying XDS (Extended Data Services) information.

The Auto Clock feature enables the DVD+VCR to set the clock while the DVD+VCR is turned off.

#### Press MENU to display the MAIN menu.

Use ▲/▼ to choose the CLOCK menu. Press ENTER and the CLOCK menu will appear.



#### Use ▼ to choose the AUTO CLOCK SET option. Use ◀/▶ to choose ON.

The Auto Clock Set feature is set to ON at the factory. In the ON setting, the DVD+VCR looks for a channel carrying XDS (Extended Data Services) information. XDS updates the clock using the Coordinated Universal Time.

#### Use ▼ to choose the DAYLIGHT SAVINGS option.

Use ◄ or ► to choose AUTO, ON, or OFF. If you choose AUTO, the VCR sets the clock using the DST information broadcast in the signal (channel). If you choose ON, the VCR adjusts the clock for Daylight Saving Time automatically.

Use ▼ to choose the TIME ZONE option. Use ◀ or ▶ to choose the correct time zone (AUTO, EASTERN, CENTRAL, MOUNTAIN, PACIFIC, ALASKA or HAWAII).

If "AUTO" is selected as the time zone, the VCR sets the clock using the first Coordinated Universal Time information it finds in a broadcast signal.

Press MENU when finished.

Turn off the DVD+VCR and the auto clock set feature sets the time.

## Note

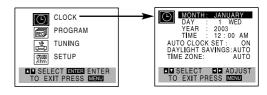
There are cases where the TV station does not send or sends wrong date and/or time information and the DVD+VCR sets the incorrect time.

If this happens we recommend that you set the clock manually.

#### Manual Clock Set



2 Use ▲/▼ to choose the CLOCK menu. Press ENTER and the CLOCK menu will appear.



Use ◄/► to choose the MONTH option.



Use ▼ to choose the DAY option. Use ◀/► to choose the date. The day of the week will display automatically.

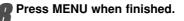
- Use ▼ to choose the YEAR option.
- Use </▶ to choose the year.</p>
  - Use ▼ to choose the TIME option.

Use ◄/► to choose the time. Press and hold ◄/► to advance the clock continuously.

# Use ▼ to choose the DAYLIGHT SAVINGS option.

Use ◄ or ► to choose AUTO, ON, or OFF. If you choose AUTO, the VCR sets the clock using the DST information broadcast in the signal (channel). If you choose ON, the VCR adjusts the clock for Daylight Saving Time automatically.





# Note

If setting the clock manually, "AUTO CLOCK SET" must be set to "OFF". If it is set to "ON", an incorrect date and/or time will be entered again when the DVD+VCR is turned off.



# **PREPARATION**

# **DVD** Operation Setup

# **General Explanation**

This manual provides general instructions for operating the DVD+VCR. Some DVDs have special requirements or allow only limited operations during playback. When this occurs, the  $\bigcirc$  symbol appears on the TV screen, indicating that the operation is not permitted by the DVD+VCR or is not available on the disc.

# **On-Screen Display**

The On-Screen Display gives feedback on the status of the DVD+VCR, and provides a shortcut to change various playback options.

#### **On-screen display operation**

Press DISPLAY during playback.

1

DVD

## Use ▲/▼ to select an option.

- The selected option will be highlighted.
- **3** Use *◄/►* to change the setting of an option. The number buttons can be also be used for setting numbers (e.g., title number). For some functions, press ENTER to execute the setting.

#### **Temporary Feedback Field Icons**

- Repeat Title (DVD)
- S CHAPT Repeat Chapter (DVD)
- Repeat A-B
- OFF Repeat Off
- Resume play from this point
  - Action prohibited or not available

#### N otes

- Some discs may not provide all the features in the example below.
- If no button is pressed for 10 seconds, the on-screen display disappears.

Options		<b>Function</b> (Use $\blacktriangle$ / $\blacksquare$ to select the desired option)	Selection Method
Title Number	1/3	Shows the current Title number and total number of Titles, and skips to the desired title number.	◄/►, or Numeric, ENTER
Chapter Number	1/12	Shows the current Chapter number and total number of Chapters, and skips to the desired Chapter number.	◄/►, or Numeric, ENTER
Time search	0:16:57	Shows the elapsed playing Time, and searches for a specific elapsed time.	Numeric, ENTER
Audio Language and Digital Audio Output mode	1 ENG DID 5.1CH	Shows the current Audio soundtrack language, encoding method, and channel number, and changes the setting.	Image: Audio Audio
Subtitle Language	ABC OFF	Shows the current Subtitle language, and changes the setting.	✓/►, SUBTITLE
Angle	00- 1/1	Shows the current Angle number and total number of Angles, and changes the Angle number.	►, ANGLE</td
Sound	NORM.	Shows the current Sound mode, and changes the setting.	►</td

# **DVD Operation Setup (Continued)**

# **Initial Settings**

You can set your personal preferences for DVD+VCR operation.

#### **General Operation**

#### Press SETUP.

The setup menu appears.



2 Use ▲/▼ to select the desired option. The screen will show the current setting for the selected option, as well as alternate setting(s).

While the desired option is selected, press  $\triangleright$ , then use  $\blacktriangle/\nabla$  to select the desired setting.

**Press ENTER to confirm your selection.** Some options require additional steps.

**5** Press SETUP, RETURN, or PLAY (>) to exit the setup menu.

## Language

#### Disc Language DVD

Select your preferred language for Disc Menus, Audio soundtracks, and Subtitles.

**Original**: The original language set for the disc is selected. **Other**: To select another language, use the number buttons to enter the corresponding 4-digit number according to the language code list on page 35. If you enter the wrong language code, press CLEAR.

# Note

Disc language selections may not be available on some DVDs.



#### Menu Language

Select a language for the DVD Setup menu. This is the menu you see when you press SETUP in DVD mode.



#### **Picture**

#### TV Aspect DVD

**4:3 Letterbox:** Select when a standard 4:3 TV is connected. Displays theatrical images with masking bars above and below the picture.

**4:3 Panscan:** Select when a standard 4:3 TV is connected. Displays pictures cropped to fill your TV screen. Both sides of the picture are cut off.

16:9 Wide: Select when a 16:9 wide TV is connected.

	Disc Audio	4:3 Letterbox
$\circ$	Disc Subtitle	4:3 Panscan
	Disc Menu	√16:9 Wide
	Rating	
t	Country Code	
	TV Aspect	
	Menu Language	
0	Digital Audio Output	
	Others	

# **PREPARATION**

# **DVD Operation Setup (Continued)**

#### Sound

#### **Digital Audio Output**

Each DVD disc has a variety of audio output options. Set the DVD+VCR's Digital Audio Output according to the type of audio system you use.

**DOLBY DIGITAL/PCM:** Select DOLBY DIGITAL/PCM if you have connected the DVD+VCR's DIGITAL AUDIO OUT jack to a Dolby Digital decoder (or an amplifier or other equipment with a Dolby Digital decoder).

**Stream/PCM:** Select Stream/PCM if you have connected the DVD+VCR's DIGITAL AUDIO OUT jack to an amplifier or other equipment with a DTS decoder, Dolby Digital decoder or MPEG decoder.

**PCM:** Select when connected to a 2-channel digital stereo amplifier. The DVD+VCR outputs sounds in the PCM 2-channel format when you play a DVD video disc recorded with a Dolby Digital, MPEG1, or MPEG2 recording system.



#### Sample Frequency

To change the Sample Frequency setting, first select the desired Digital Audio Output as indicated above. If your receiver or amplifier is NOT capable of handling 96KHz signals, select 48KHz. When this choice is made, the unit will automatically convert any 96KHz signals to 48KHz so your system can decode them. If your receiver or amplifier is capable of handling 96KHz signals, select 96KHz. When this choice is made, the unit will pass each type of signal through without any further processing.

## Others

The Dynamic Range Control (DRC), Vocal and Auto Play settings can also be changed.

• Use ▲/▼ to select the desired option and then press ENTER repeatedly to select On or Off.

Disc Audio	DRC On
<ul> <li>Disc Subtitle</li> </ul>	Vocal On
Disc Menu	
Rating	Auto Play off
Country Code	
TV Aspect	
Menu Language	
Digital Audio Output	
Others	

#### **Dynamic Range Control (DRC)**

With the DVD format, you can hear a program's soundtrack in the most accurate and realistic presentation possible, thanks to digital audio technology. However, you may wish to compress the dynamic range of the audio output (the difference between the loudest and quietest scenes), e.g., when watching a movie late at night. With DRC set to ON, you can listen to a movie at a lower volume without losing sound clarity.

#### Vocal

Set Vocal to On only when a multi-channel karaoke DVD is playing. The karaoke channels on the disc will mix into normal stereo sound.

#### Auto Play DVD

You can set up the DVD Player so a DVD disc automatically starts playing whenever the DVD is inserted. If Auto Play mode is set to On, this DVD player will search a title that playback time is long most and then play back the title automatically. **On:** Auto Play function is activated. **Off:** Auto Play function is not activated.

## Note

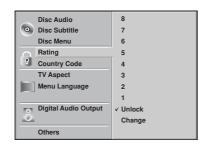
The Auto Play function may not work for some DVDs.

# **DVD Operation Setup (Continued)**

#### **Parental Control**

#### Rating **DVD**

Movies on DVDs may contain scenes not suitable for children. Therefore, discs may contain Parental Control information that applies to the complete disc or to certain scenes on the disc. These scenes are rated from 1 to 8, and alternatively, more suitable scenes are available for selection on some discs. Ratings are country-dependent. The Parental Control feature allows you to prevent discs from being played by your children or to have certain discs played with alternate scenes.



**1** Select Rating on the Setup menu using the  $\blacktriangle \nabla$  buttons.

While Rating is selected, press ►.

#### If you have not yet entered a password:

Enter a 4-digit security password using the number buttons, then press ENTER. Enter the 4-digit password again and press ENTER to verify. **If you have already entered a password:** Enter your 4-digit security password using the number buttons, then press ENTER.

If you make a mistake before pressing ENTER, press CLEAR and enter your 4-digit security password again.

Select a rating from 1 to 8 using the ▲/▼ buttons. One (1) has the least playback restrictions. Eight (8) has the most playback restrictions. Unlock: If you select Unlock, Parental Control is not active. The disc will play in full. Ratings 1 to 8: Some discs contain scenes not suitable for children. If you set a rating for the DVD+VCR, all disc scenes with the same rating or lower will be played. Higher rated scenes will not be played unless an alternate scene is available on the disc. The alternate must have the same rating or a lower one. If no suitable alternate scene is avail-

able, playback will stop. You must enter the 4-digit password or change the rating level in order to play the disc.

Press ENTER to confirm your rating selection, then press SETUP to exit the menu.

#### Country Code DVD

Enter the code of the country whose standards were used to rate the DVD video disc, referring to the "Country Code List" on page 36.

	Disc Audio	Code Set
$(\circ)$	Disc Subtitle	US
	Disc Menu	
	Rating	
	Country Code	
	TV Aspect	
	Menu Language	
0	Digital Audio Output	
	Others	

Select the Country Code option using the ▲/▼ buttons on the setup menu.

While Country Code is selected, press ►.

Follow step 3 under "Rating" at left.

Select the first character using the  $\blacktriangle/\nabla$  buttons.

- **5** Press  $\triangleright$  to shift to the second character and select it using the  $\blacktriangle/\nabla$  buttons.
  - Press ENTER to confirm your Country Code
  - selection, then press SETUP to exit the menu.

#### N ote

Confirmation of the 4-digit password is necessary when the password is changed (see "Changing the 4-digit password" below ).

#### Changing the 4-digit password

- 1 Follow Steps 1-2 as shown above under "Rating" at left.
- 2 Enter the old password, then press ENTER.
- 3 Select Change using the ▲/▼ buttons then press ENTER.
- 4 Enter the new 4-digit password, then press ENTER.
- 5 Enter exactly the same password a second time and verify by pressing ENTER.
- 6 Press SETUP to exit the menu.

#### If you forget your 4-digit password

If you forget your password, you can clear the current password by following the procedure below.

- 1 Press SETUP to display the Setup menu.
- 2 Enter the 6-digit number 210499 and then press ENTER.

The 4-digit password is cleared.

**3** Enter a new password as shown under "Rating" at left.

# **VCR** Operation

# **Normal Playback**

#### Preparation:

- Turn on the TV.
- Tune the TV to the DVD+VCR output channel (CH 3 or 4) or set the TV's source selector to VIDEO.
- If a direct VIDEO/AUDIO connection is made between the DVD+VCR and the TV, set the TV's source selector to VIDEO.
- Set the DVD+VCR source to VCR as shown in "Selecting the Viewing Source" on page 6.

#### Insert a prerecorded video cassette.

- The To indicator will light and the DVD+VCR will power-up automatically.
  - Make sure that the *O* indicator in the display window is not lighted. If it is, press **POWER** once.
  - If a tape without a record safety tab is inserted, the unit will start playback automatically.

#### Press PLAY (►) once.

- PLAY appears on the TV screen .
- It is not necessary to select the tape speed for playback. It will be automatically selected by the DVD+VCR.
- During playback, the TV/VCR selector switches to VCR mode automatically.

#### Press STOP (■) to stop playback.

- STOP appears on the TV screen.
- If the tape reaches the end before STOP (■) is pressed, the DVD+VCR will automatically stop, rewind, eject the tape, and power off.

# **Tracking Control**

#### Auto Tracking

The automatic tracking function adjusts the picture to remove snow or streaks during playback. The AUTO TRACKING function works in the following cases:

- When a tape is played back for the first time.
- When the tape speed (SP, LP, SLP) changes.
- When streaks or snow appear due to scratches on the tape.

#### **Manual Tracking**

If noise appears on the screen during playback, press either **TRK** +/- on the remote control or **CH** ( $\blacktriangle$ / $\bigtriangledown$ ) on the front panel until the noise on the screen is reduced.

- If vertical jitter is present, adjust tracking controls very carefully.
- Tracking is automatically reset to normal when the tape is ejected or the power cord is unplugged for more than 3 seconds.

# Special Effects Playback

#### M Special effects playback notes

- Horizontal lines (noise bars) will appear on the TV screen. This is normal.
- The audio is automatically muted during special effects, so there is no sound during search.
- During high-speed picture search, a short period is needed to stabilize tape speed when re-entering Play mode. Slight interference may be observed during this period.

#### Search

The Search function allows you to visually scan forward or backward during playback.

- 1 Press REW (I◄◄) or FF (►►I) during playback to activate Search mode.
- If the DVD+VCR is left in Search mode for more than 3 minutes, the DVD+VCR will automatically enter Play mode to protect the tape and video heads.
- 2 To return to normal playback, press PLAY (>).

### Still Picture and Frame-by-Frame Playback

- 1 Press PAUSE/STEP (III) during playback to pause the picture on the TV screen.
  - If a still picture vibrates vertically, stabilize it using ▲/▼ on the remote control.
  - If the DVD+VCR is left in Still mode for more than 5 minutes, the DVD+VCR will automatically enter Stop mode to protect the tape and video heads.
- 2 Press PAUSE/STEP (III) repeatedly to advance the video picture one frame at a time.
- 3 To return to normal playback, press PLAY (►).

### **Slow Motion**

- 1 While in Still mode, press FF (►►I).
  - The tape will be played back in slow motion (1/19 normal speed).
  - During slow motion playback, use ▲/▼ on the remote control to minimize noise bands.
  - If slow motion playback continues for more than 3 minutes, the DVD+VCR will automatically change to normal Play mode.
- 2 To return to normal playback, press PLAY (>).

#### **Commercial Skip**

This feature is useful for skipping commercials or short program segments.

- 1 Press SKIP during playback.
  - The tape will fast forward picture search through 30 seconds of recording.
  - Skipping time can be extended by pressing SKIP repeatedly.
  - Subsequent presses result in advancing the fast forward picture search time in 30-second increments (up to a maximum of 3 minutes).
- 2 When the search is complete, the DVD+VCR will return to normal playback mode automatically.

# **Normal Recording**

#### **Preparation:**

- Turn on the power on both the DVD+VCR and TV.
- Tune the TV to the DVD+VCR output channel (CH 3 or 4) or set the TV's source selector to VIDEO.
- If a direct VIDEO/AUDIO connection is made between the DVD+VCR and the TV, set the TV's source selector to VIDEO.

# Insert a video cassette with the record safety tab intact.

# **9** Select the desired channel with $\blacktriangle/\nabla$ .

 If you are recording from an external source via the audio/video input jacks (on the Rear), select AV by pressing the INPUT button.

# Set the desired recording speed (SP or SLP) with the SP/SLP button.

• This DVD+VCR is not designed to record in LP mode.

#### Press REC (●) once.

Recording will start. (The REC indicator will light on the front panel display.)

- The REC indicator appears only when the output source is set to VCR.
- If a cassette with no record safety tab is loaded, the cassette will be ejected automatically.



#### Press STOP (■) to stop recording.

If the tape reaches the end before STOP ( $\blacksquare$ ) is pressed, the DVD+VCR will automatically stop, rewind, eject the tape, and power off.

#### To pause recording

1 Press PAUSE/STEP (III) to pause the tape during recording.

The REC indicator will flash on the front panel display.

- 2 When you want to continue recording, press PAUSE/STEP (III) or REC (●).
  - After 5 minutes in Pause mode, the tape will be stopped automatically to protect the tape and the video heads.

# To record one TV program while watching another

- 1 Use TV/VCR to select TV mode during recording. The TV indicator appears.
- 2 Using your TV's remote control, select the channel to be viewed.

# $\tau'_{ips}$

For best results, always use PAUSE/STEP (**II**) when making changes during recording.

For example: To change channels during recording, first press PAUSE/STEP (**II**) to put the unit in Pause mode. Select the desired channel on the DVD+VCR, then press PAUSE/STEP (**II**) again to resume recording.

# **Timer Recording**

The DVD+VCR can be programmed to record up to 8 programs within a period of 1 year. To set a timer recording, simply enter the channel to be recorded and the starting and ending times.

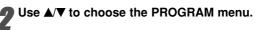
#### Things to know before starting

- If you try to set the program timer before setting the clock, PLEASE SET THE CLOCK appears for a moment and then the CLOCK menu appears on the TV screen. Set the time and date before proceeding.
- Make sure a tape is in the DVD+VCR and the record safety tab is in place or the tape will be automatically ejected.

#### Preparation:

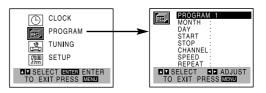
- Turn on the power on both the DVD+VCR and the TV.
- Be sure the TV is set to the DVD+VCR output channel (3 or 4).
- Make sure the TUNING BAND in the TUNING menu is set appropriately (TV or CATV).

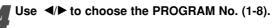




#### Press ENTER to go to the PROGRAM menu. The PROGRAM menu will appear.

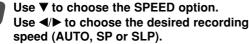
• If all 8 programs have been entered, the message FULLY PROGRAMMED will appear for a moment and then PROGRAM 1 will appear on the TV screen.





- G Use ▼ to choose the MONTH option.
- Use **√** to choose the desired month.
- Use ▼ to choose the DAY option.
- ✓ Use ◄/► to choose the desired day.
- ✓ Use ▼ to choose the START option.
- Use  $\triangleleft$  to choose the desired start time.
- Use ▼ to choose the STOP option.
  - Use  $\triangleleft$  to choose the desired stop time.
  - Use  $\checkmark$  to choose the CHANNEL option. Use  $\triangleleft/\triangleright$  to choose the desired channel (Channel, AV).

**Cable Users:** If you have CABLE TV and used Cable Box in Connecting Antenna/Cable TV to DVD+VCR (page 11), using a cable box converter, you must set the channel in this step to match the cable box output channel (usually CH 3 or 4). Change channels on the cable box instead of on the DVD+VCR.



• AUTO mode determines how much tape is left and automatically switches from SP to SLP, if necessary, to complete recording of the program. There will be some picture and sound distortion at the point of the speed change.

Use ▼ to choose the REPEAT option. Use ◀/► to choose the desired repeat (ONCE, WEEKLY or DAILY). ONCE event....for recording a single event.

WEEKIX event for recording on event on

**WEEKLY event...** for recording an event on a certain day every week.

**DAILY event...** for recording an event at the same time Monday through Friday.



# $T_{ip}$

If the input data is wrong, use  $\blacktriangle$  to select the data and correct it using  $\checkmark$ .



# Press MENU. The program will be memorized by the DVD+VCR.

- The  $\mathcal{O}$  indicator lights on the front panel display.
- If the program time has past, the PAST TIME PRO-GRAMMED message will appear on the TV screen. Return to the incorrect program and program it with the correct time.
- If you have entered a past date, the timer recording will be performed on that date of the next year.
- Additional programs may be entered by repeating steps 1-12.

**Cable Users:** If your cable hookup is via a TV converter box, you can program multiple recordings only on the converter box output channel. This is because the converter determines what channel you view through your DVD+VCR.

# $au'_{\mathsf{ip}}$

If you are finished programming and you want to set the DVD+VCR to record the programs you have entered, **MAKE SURE YOU HAVE INSERTED A TAPE INTO THE DVD+VCR.** The DVD+VCR is now set to record the preset programs.



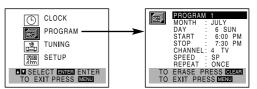
If the power fails or the DVD+VCR is unplugged from the AC outlet, the correct clock time and timer settings are kept in memory for approximately 3 seconds. After 3 seconds, the clock and program timer must be reset when power is restored. Reset the clock according to the instructions.

After setting up a timer recording, recording will start if no other timer recordings are scheduled to occur at the same time (see "Program Priority" at right).

#### Checking (Erasing) Timer Record Programming

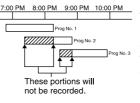
Programming can be checked whenever the DVD+VCR is turned on.

- 1 Press MENU to display the MAIN menu.
- 2 Use ▲/▼ to choose the PROGRAM menu. Press ENTER and the PROGRAM menu will appear.



- 3 Use ◄/► to select a program you want to check or erase. If you want to erase the program, press CLEAR.
- 4 Press MENU to return to the TV screen.

### **Program Priority**



If the starting and ending times of two or more timer recordings overlap on the same day, priority is given to the earliest recording. For example, in the diagram at left Program number 2 will not be recorded until

23

**OPERATION** 

Program number 1 is finished. The first part of Program number 2 will not be recorded. Likewise, Program number 3 will not be recorded until Program number 2 is finished, and so on.

#### Instant Timer Recording

Instant Timer Recording allows you to easily make a recording of a preset length without using the programmable timer.

#### **Preparation:**

- Turn on the power on both the DVD+VCR and the TV.
- Be sure the TV is tuned to the DVD+VCR output channel (3 or 4).
- If a direct VIDEO/AUDIO connection is made between the DVD+VCR and the TV, set the TV's source selector to VIDEO.

Insert a video cassette with the record safety tab intact.

**2** Select the desired channel with  $\blacktriangle \nabla$  or the number (0-9) buttons.

The channel number appears on the TV screen. • If you are recording from another source via the

audio/video input jacks (on the Rear), select AV.

# Select the desired recording speed (SP or SLP) with the SP/SLP button.

The tape speed will appear on the TV screen.

#### Press REC (●) twice.

The "Instant Timer Record" will appear on the TV screen.

Recording will start. (The ∅ indicator will light)

#### Press REC (•) repeatedly to select the recording time length.

At the end of the recording, the DVD+VCR will stop recording and shut off.

- During Instant Timer Recording, you cannot change the channel on the DVD+VCR.
- You can stop the recording by pressing STOP (■).

#### INSTANT TIMER RECORD MENU

INSTANT TIM	IER RECORD	0H30M 9H00M → 0H00M
CHANNEL SPEED	2 SP	Length Display (each additional press of
START LENGTH	NOW 0H30M	REC (•) increases recording time 30 minutes)

#### **Checking the Recording Time**

Press REC ( $\bullet$ ) once to check the recording time. The DVD+VCR will display the time on screen for ~6 seconds and then return to the recording in progress.

# To Extend the Recording Time

Recording time can be extended anytime by pressing REC  $(\bullet)$ .

Subsequent presses result in increasing the recording time in 30-minute increments.

# Notes

- If you press PAUSE/STEP (■) during instant timer recording, the DVD+VCR will enter Record/Pause mode. Instant Timer Recording is cancelled.
- If the DVD+VCR is set to "0H00M", the DVD+VCR goes to normal Recording mode.

### **Dubbing and Editing**

You can easily edit or dub camcorder/VCR recordings to the DVD+VCR via the front/rear panel audio/video jacks. These direct A/V jacks provide better picture results than using the RF jack on the rear panel.

Connect the camcorder (or secondary VCR) to the A/V inputs of the DVD+VCR as shown on page 13.

# **2** Set the input channel to "AV". (Press INPUT to select AV.)

 If you have connected your DVD+VCR to the A/V input jacks on the rear of the DVD+VCR, you should select AV by pressing INPUT.

Play the tape in the camcorder (or another VCR). If you have a TV attached to your

DVD+VCR, you can see the video playing.

When you are ready to begin recording, press REC (ullet) once to start.

## Note

Before recording, please confirm the recording start position.

# Copying from DVD to VCR

This unit is capable of copying the contents of a DVD to a VHS tape.

# N ote

If the DVD you are attempting to copy is copy protected, you will not be able to copy the disc. It is not permitted to copy Macrovision-encoded DVDs. "Lock" is displayed on the front panel display.

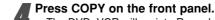
#### Insert Disc

Insert the disc you wish to copy in the DVD deck and close the disc tray.

#### Insert VHS Tape

Insert a blank VHS video tape into the VCR deck.

- Press PLAY (>) on the DVD deck.
  - The DVD will go into Play mode
  - If the DVD disc menu appears, you may need to press PLAY (▶) manually to begin copying.



- The DVD+VCR will go into Record mode.
- The "COPY" indicator will light.

#### Stop the Copy Process

When the DVD is finished playing, press STOP ( $\blacksquare$ ) to stop recording.

You must stop the Copy process manually when the DVD movie ends, or the unit may replay and record over and over again.



When you stop DVD playback during copying, the VCR Recording mode also stops automatically.





# **Tape Counter Memory Feature**

#### **Real-Time Counter**

The tape counter shows length of tape in hours, minutes, and seconds. Press **CLK/CTR** to select the realtime counter display.

Every press of **CLK/CTR** changes the TV screen as shown below.



- The counter changes to "0:00:00" when the cassette is ejected.
- The real-time counter does not operate if nothing is recorded on the tape.
- The real-time counter will not work unless a tape is inserted.

## **Counter Memory Feature**

This is useful if there is a section of tape you want to view immediately after recording or if you want to return to the same point several times.

# Begin recording or playing a tape.

**Press CLK/CTR repeatedly to display the real-time counter on the TV screen.** 

**3** At the point you want to locate later, reset the real-time counter to "0:00:00" by pressing CLEAR.

Continue to play or record.

# **5** Press STOP (**■**) when recording or playback finishes.

#### Press REW (I ).

The tape automatically stops when the tape counter returns to "0:00:00".

## **Tape Remaining**

This function shows the time remaining on the tape during recording or playback.

Press **CLK/CTR** repeatedly until the REM indicator appears on the TV screen during recording or playback.

# Note

The remaining tape length indicator may not be displayed correctly depending on the condition of the tape and the kind of the tape (T-140, T-160, T-210, etc.)

# **Additional Information**

- During Recording, Timer Recording, Instant Timer Recording, Play, or Fast Forward modes, the DVD+VCR automatically starts rewinding the tape at the end of the tape. The cassette will stop at the beginning of the tape and be ejected, and the DVD+VCR will turn itself off.
- After you have finished using the DVD+VCR, rewind, eject, and remove the cassette. Place the cassette in its protective sleeve to protect it from dust. It is not necessary to rewind the cassette before removing it, but if you do, it will be ready to play or record the next time you use it.
- Be sure the DVD+VCR Channel Selector is on the correct channel you wish to record. The channel that is being recorded can always be checked by tuning the television to the DVD+VCR channel (3 or 4) and pressing the **TV/VCR** selector to turn the DVD+VCR's TV indicator off.
- Do not attempt to hook up more than one television set to the DVD+VCR for either recording or playback.

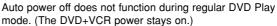
# Auto Play System

The DVD+VCR features automatic playback when you load a cassette with the record safety tab removed.

- The output source is changed to VCR mode automatically.
- The power turns on automatically and playback begins.
- At the end of the tape, the DVD+VCR stops and rewinds the tape.
- The cassette is ejected after rewinding and the VCR turns itself off automatically.



#### Note



# **DVD** Operation

# **Playing DVDs**

## T Playback Setup **DVD**

- Turn on the TV and select the video input source connected to the DVD+VCR.
- Audio system: Turn on the audio system and select the input source connected to the DVD+VCR.
- Set the DVD+VCR output source to DVD as shown in "Selecting the Viewing Source" on page 6.

# Press EJECT (会) to open the disc tray.

# **2** Load the disc in the tray with the label facing up.

When a double-sided DVD is inserted, make sure the side you want to play is facing down.

#### Press EJECT (<sup>(</sup>) to close the tray.

"LOAd" appears on the front panel display, and playback starts automatically. If playback does not start, press PLAY (►).

In some cases, the disc menu may appear instead.

### ${\mathcal T}$ If a menu screen is displayed

If the DVD has a disc menu, it may be displayed when the disc is loaded.

#### DVD

Use the  $\triangleleft/\triangleright/\land/\lor$  buttons to select the title/chapter you want to view, then press ENTER to start playback.

Press TITLE or DISC MENU to return to the menu screen.

# Notes

- If Parental Control is set and the disc is not within the Rating settings (not authorized), the 4-digit password must be entered and/or the disc must be authorized (see Parental Control, on page 20).
- DVDs may have a Region Code. Your DVD+VCR will not play discs that have a Region Code different from your DVD+VCR. The Region Code for this DVD+VCR is 1 (one).
- Do not keep a fixed image displayed on the screen for a long time.

#### Screen Saver

The screen saver picture appears when you leave the DVD+VCR in Stop mode for about five minutes.

# **General Features**

#### Note

Unless otherwise stated, all operations described below use the remote control. Some features may also be available in the Setup menu.

Moving to another TITLE **DVD G** 13

When a disc has more than one title, you can move to another title as follows:

• Press DISPLAY in Stop mode, then press the appropriate number buttons (0-9) and press ENTER to select the desired title number.

## Moving to another CHAPTER



When a title on a disc has more than one chapter or a disc has more than one track, you can move to another chapter as follows:

- Press REW (I◄◄) or FF (▷►I) briefly during playback to return to the beginning of the current chapter or to select the next chapter.
- Press REW (I◄◄) twice briefly to step back to the previous chapter.
- To go directly to any chapter during playback, press DISPLAY. Use ▲/▼ to select Chapter. Then, enter the chapter number with the number buttons (0-9). Then, press ENTER.

#### Slow Motion DVD

- 1 Press PAUSE/STEP (III) during playback. The DVD+VCR will go into Pause mode.
- 2 Press REW (I◄◄) or FF (►►I) during Pause mode. The DVD+VCR will enter Slow mode.
- 3 Use REW (I◄◄) or FF (▶►I) to select the desired speed: ◄I 1/16, ◄I 1/8, ◄I 1/4, ◄I 1/2 (backward), or I► 1/16, I► 1/8, I► 1/4, I► 1/2 (forward).
- 4 To return to normal playback, press PLAY (►).



# **General Features (Continued)**

# Still Picture and Frame-by-Frame Playback

- 1 Press PAUSE/STEP (II) during playback. The DVD+VCR will go into Pause mode.
- 2 With a DVD, you can advance the picture frame by frame by pressing PAUSE/STEP (II) repeatedly on the remote control.
- 3 To return to normal playback, press PLAY (►).

#### Search DVD

- Press and hold REW (I◄◄) or FF (►►I) for about two seconds during playback. The DVD+VCR will go into SEARCH mode.
- Press and hold REW (I◄◄) or FF (►►I) repeatedly to select the desired speed: ◄X2, ◄X4, ◄X16, <</li>
  ◄X100 (backward) or ►►X2, ►►X4, ►►X16, 
  ►X100 (forward).
- 3 To return to normal playback, press PLAY (►).

#### Random Karaoke DVD

- 1 Press RANDOM during playback or Stop mode. The unit automatically begins Random Playback and "RANDOM" appears on the TV screen.
- 2 To return to normal playback, press RANDOM until "NORMAL" appears on the TV screen.

# $T_{ips}$

By pressing REW (I◄◄) or FF (►►I) during Random playback, the unit selects another title (track) and resumes Random playback.

# Note

This function only works with DVD Karaoke discs.

# Repeat OVD CHAPT OTTLE OFF

#### DVD Video Discs - Repeat Chapter/Title/Off

1 To repeat the currently playing chapter, press REPEAT.

The Repeat Chapter icon appears on the TV screen.

**2** To repeat the title currently playing, press REPEAT a second time.

The Repeat Title icon appears on the TV screen.

**3** To exit Repeat mode, press REPEAT a third time. The Repeat Off icon appears on the TV screen.

#### Repeat A-B DVD

#### 🔷 A \* 🔷 A B 🔷 OFF

To repeat a sequence in a title:

- 1 Press A-B at your chosen start point.
- A- appears briefly on the TV screen.
- 2 Press A-B again at your chosen end point. A-B appears briefly on the TV screen, and the repeat sequence begins.
- 3 To cancel the sequence, press A-B again.

#### Time Search DVD ( 0:16:57 ( ------

The Time Search function allows you to start playing at any chosen time on the disc.

- 1 Press DISPLAY during playback. The on-screen display appears on the screen. The Time Search box shows the elapsed playing time of the current disc.
- 2 Within 10 seconds, use ▲/▼ to select the Time Search icon in the on-screen display. The "-:--:-" appears in the Time Search box.
- 3 Within 10 seconds, use the number buttons to enter the desired start time. Enter hours, minutes and seconds from left to right in the box.If you enter the wrong numbers, press CLEAR to remove the numbers you entered. Then enter the correct numbers.
- 4 Within 10 seconds, press ENTER. Playback starts from the selected time on the disc. If you enter an invalid time, playback will continue from the current point.



The DVD+VCR can produce a 3D Surround effect, which simulates multi-channel audio playback from two conventional stereo speakers (instead of the five or more speakers normally required to listen to multichannel audio from a home theater system).

- **1** Press DISPLAY during playback.
- 2 Use ▲/▼ to select the Sound icon. The sound option will be highlighted.
- 3 Use ◄/► to to select "NORM" or "3D SUR". To turn off the 3D Surround effect, select "NORM.".

#### Zoom DVD

The Zoom function allows you to magnify the video image and move around the enlarged image.

1 Press ZOOM during playback or still playback to activate the Zoom function.

If you press ZOOM repeatedly, the magnification level increases up to six steps.

- 2 Use the *◄/►/▲/▼* buttons to move around the zoomed picture.
- **3** Press CLEAR to resume normal playback or return to the paused image.

#### N otes

- The Zoom function may not work on some DVDs.
- The Zoom function may not work on multi-angle scenes.

# **General Features (Continued)**

#### Marker Search **DVD**

 №
 MARKER SEARCH

 №

You can start playback from a bookmarked point on your disc. Up to nine points can be memorized. To enter a mark, follow these steps.

- 1 During disc playback, press MARK when playback reaches the point you want to bookmark. The Marker icon appears briefly on the TV screen.
- 2 Repeat step 1 to enter up to nine Marker points on a disc.

#### To Recall a Marked Scene

- 1 During disc playback, press SEARCH. The Marker Search menu will appear on the screen.
- 2 Within 10 seconds, use the *◄/►* or number buttons to select the Marker number you want to recall.
- 3 Press ENTER. Playback will start from the Marked scene.
- 4 To exit the MARKER SEARCH menu, press SEARCH.

#### To Clear a Marked Scene

- 1 During disc playback, press SEARCH. The Marker Search menu will appear on the screen.
- 2 Within 10 seconds, use the *◄/* or number buttons to select the Marker number you want to erase.
- **3** Press CLEAR. The Marker number will be erased from the list.
- 4 Repeat steps 2 and 3 to erase additional Marker numbers.
- 5 To exit the MARKER SEARCH menu, press SEARCH.
- All markers are erased when the disc is ejected.

# **Special DVD Features**

# Checking the contents of DVD Video discs: Menus

DVDs may contain menus that allow you to access special features. To use the disc menu, press DISC MENU. Then, press the appropriate number button to select the desired option. You can also use the  $\triangleleft/\triangleright/\blacktriangle/\lor$  buttons to highlight your selection, then press ENTER.

#### Title Menu DVD

- 1 Press TITLE.
- If the current title has a menu, the menu will appear on the screen. Otherwise, the disc menu may appear.
- 2 The Title menu may list camera angles, audio languages, subtitle options, chapters, etc.
- 3 To remove the title menu, press TITLE again.

#### Disc Menu DVD

- 1 Press DISC MENU.
- The disc menu is displayed.
- 2 To exit the disc menu, press DISC MENU again.

### Camera Angle 💵 🛍 🗤

If the disc contains sequences recorded from different camera angles, the angle icon blinks on the TV screen. You can then change the camera angle if you wish.

- Press ANGLE repeatedly during playback to select the desired angle.
  - The number of the current angle appears on the display.

#### Changing the Audio Language DVD

1 ENG DXDD 5.1 CH

Press AUDIO repeatedly during playback to hear a different audio language or audio track.

#### Subtitles **DVD I** I ENG

Press SUBTITLE repeatedly during playback to see the different subtitle languages.



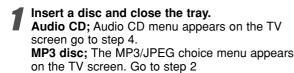
If  $\bigotimes$  appears, the feature is not available on the disc.

## **Operation with Audio CD and MP3 Disc**

#### Playing an Audio CD and MP3 Disc

#### CD MP3

The DVD Player can play MP3 formatted recordings on CD-ROM, CD-R or CD-RW discs. Before playing MP3 recordings, read the notes on MP3 Recordings on right.



J MP3

Press ▲/▼ to select the MP3 then press ENTER. The MP3 menu appears on the TV screen. Press RETURN to move to the MP3/JPEG choice menu.

MP3		Program
Folder1	^	
Folder2		
E Folder3		
E Folder4		
Folder5		
E Folder6		
Eolder7		
- Folder8		Clear All
00:00	Г	D OFF



**Press**  $\blacktriangle$  **to select a folder, and ENTER.** A list of files in the folder appears.

#### Press ▲/▼ to select a track then press PLAY(►) or ENTER.

Playback starts.

During playback, the current track's elapsed playing time will appear on the display window and menu. Playback will stop at the end of the disc. Press TITLE to move to the next page.

Press DISC MENU to move to the previous page.



Audio CD menu



#### T Tip

If you are in a file list and want to return to the Folder list, use the  $\blacktriangle \forall$  to highlight  $\blacksquare$ . and press ENTER to return to the previous menu screen.

**5** To stop playback at any other time, press STOP  $(\blacksquare)$ .

#### Notes on MP3 Recordings

#### About MP3

- An MP3 file is audio data compressed by using the MPEG1 audio layer-3 file-coding scheme. We call files that have the ".mp3" file extension "MP3 files".
- The player can not read an MP3 file that has a file extension other than ".mp3".

#### MP3 Disc compatibility with this player is limited as follows:

- 1. Sampling Frequency / only at 44.1kHz
- 2. Bit rate / within 32 320kbps
- 3. CD-R physical format should be "ISO 9660"
- If you record MP3 files using the software which cannot create a FILE SYSTEM, for example "Direct-CD" etc., it is impossible to playback MP3 files. We recommend that you use "Easy-CD Creator", which creates an ISO9660 file system.
- A single session disc requires MP3 files in the first track. If there is no MP3 file in the 1st track, it cannot playback MP3 files. If you wish to playback MP3 files, format all the data in the disc or use a new one.
- File names should be named using 8 letters or less and must incorporate ".mp3" extension e.g. "\*\*\*\*\*\*\*\*.MP3".
- 7. Do not use special letters such as "/ : \* ? " < > " etc.
- 8. Total number of files on the disc should be less than 650.

This DVD player requires discs/recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 files). That require certain pre-existing conditions (see above) to insure compatible playback.

Customers should also note that permission is required in order to download MP3 files and music from the Internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner.

## **Operation with Audio CD and MP3 Disc (Continued)**

#### Pause CD MP3

- 1 Press PAUSE/STEP (II) during playback.
- 2 To return to playback, press PLAY ► or press PAUSE/STEP (II) again.

#### Moving to another Track CD MP3

- Press REW (I < ) or FF( >> ) briefly during playback to go to the next track or to return to the beginning of the current track.
- Press REW (I<) twice briefly to step back to the previous track.
- In case of audio CD, to go directly to any track, enter the track number using the numbered buttons (0-9) during playback.

#### Repeat Track/All/Off CD MP3

- 1 To repeat the track currently playing, press REPEAT. The Repeat icon and "TRACK" appears on the menu screen.
- 2 To repeat all tracks on a disc, press REPEAT a second time. The Repeat icon and "ALL" appears on the menu screen.
- **3** To cancel Repeat mode, press REPEAT a third time. The Repeat icon and "OFF" appears on the menu screen.

#### Search CD

- Press and hold REW (I◄◄) or FF(►►I) for about two seconds during playback. The player will now go into SEARCH mode.
- 2 Press and hold REW (I◄◄) or FF(►►I) repeatedly to select the required speed: ◀◀X2, ◀◀X4, ◀◀X8 (backward) or ►►X2, ►►X4, ►►X8 (forward). Search speed and direction are indicated on the menu screen.
- 3 To exit SEARCH mode, press PLAY (►).

#### Random CD

1 Press RANDOM during playback or when playback is stopped.

The unit automatically begins Random Playback and RANDOM or "RAND." appears on the display window and menu screen.

**2** To return to normal playback, press RANDOM repeatedly until RANDOM or "RAND." disappears on the display window and menu screen.

#### Repeat A-B CD

To repeat a sequence.

1 During disc playback, press A-B at your chosen starting point.

The Repeat icon and "A \* " appears on the menu screen.

- 2 Press A-B again at your chosen end point. The Repeat icon and "A B" appears on the menu screen, and the sequence begins to play repeatedly.
- **3** To exit the sequence and return to normal play, press A-B again.

The Repeat icon and "OFF" appears on the menu screen.

#### 3D Surround CD

This unit can produce a 3D Surround effect, which simulates multi-channel audio playback from two conventional stereo speakers, instead of the five or more speakers normally required to listen to multi-channel audio from a home theater system.

- 1 Press DISPLAY or AUDIO during playback.
- 2 Use ◀/► to select the Sound icon ildashift . The Sound icon will be highlighted.
- 3 Use ▲/▼ to select "3D SUR". To turn off the 3D Surround effect, select "NORM.".

## Changing the Audio Channel

Press AUDIO repeatedly during playback to hear a different audio channel (STER., LEFT, or RIGHT).

# **Operation with JPEG Disc**

## Viewing a JPEG disc

This DVD Player can play discs with JPEG files and Kodak picture CD. Before playing JPEG recordings, read the notes on JPEG Recordings on right.

#### Insert a disc and close the tray.

The MP3/JPEG choice menu appears on the TV screen.

ß	MP3
$\sim$	JPEG

2 Use ▲/▼ to select the JPEG then press ENTER. The JPEG menu appears on the TV screen.

JPEG 🗅	
Folder1	•
Folder2	
Folder3	
El Folder4	
- Folder5	
Folder6	
El Folder7	
E Folder8	
	Slide Speed Off



#### Use $\blacktriangle/\nabla$ to select a folder, and ENTER.

A list of files in the folder appears. Press RETURN to move to the MP3/JPEG choice menu.

## Tip

If you are in a file list and want to return to the Folder list, use the ▲▼ buttons on the remote to highlight " ■..." and press ENTER to return to the previous menu screen.

# If you want to view a particular file, press ▲/▼ to highlight a file and press ENTER or PLAY (►). Viewing the file proceeding starts.

During viewing a file, press RETURN to move to the previous menu (JPEG menu).

Press TITLE to move to the next page.

Press DISC MENU to move to the previous page.



# Тір

There are three viewing Slide Speed options: Fast, Normal, Slow, and Off. Press  $\checkmark$  to highlight the Slide Speed then press ▲/♥ to select the option you want to use, and press ENTER.



To stop viewing at any other time, press STOP (■). The JPEG menu appears.

#### Moving to another File

Press REW ( $\bowtie \rightarrow$ ) or FF( $\triangleright \rightarrow$ I) once during viewing a picture to advance to the next file or to the previous file.

#### Still Picture

- 1 Press PAUSE/STEP (II) during slide show. The player will now go into PAUSE mode.
- 2 To return to the slide show, press PLAY (►) or press PAUSE/STEP (II) again.

#### To flip the picture

Press  $\blacktriangle \forall$  during showing a picture to flip the picture horizontally or a vertically.

#### To rotate picture

Press </br>

Press 
Press

### **Notes on JPEG Recordings**

- Depending upon the size and number of the JPEG files, it could take a long time for the DVD player to read the disc's contents. If you don't see an onscreen display after several minutes, some of the files are too big — reduce the resolution of the JPEG files to less than 2 mega pixels and burn another disc.
- Total number of files and folders on the disc should be less than 650.
- Some disc may be incompatible due to different recording format or condition of disc.
- When you are using software such as "Easy CD Creator" to burn the jpeg files into the CD-R, ensure that all the selected files have the ".jpg" extensions when copying into the CD layout.
- If the files have ".jpe" or ".jpeg" extensions, please rename them as ".jpg" files.
- File names without ".jpg" extension will not be able to be read by this DVD player. Even though the files are shown as JPEG image files in windows explorer.

## Programmed Playback CD MP3

# Programmed Playback with Audio CD and MP3 Disc

The Program function enables you to store your favorite tracks from any disc in the player memory.

Program can contain 30 tracks.

# Press PROG.PLAY during playback or in the stop mode to enter the Program Edit mode.

The E mark will appear to the right of the word Program on the right side of the menu screen.

# Note Note

Press PROG.PLAY to exit the Program Edit mode; the  $\mathbf{E}$  mark will disappear.

# 2 Select a track, then press ENTER to place the selected track on the Program list.

# **P** Repeat step 2 to place additional tracks on the Program list.

CD	Program	E	MP3		Program	Ε
TRACK 1	TRACK 12	^	<b></b>	^	FILE 8	^
TRACK 2	TRACK 8		FILE 1		FILE 2	
TRACK 3	TRACK 10		FILE 2		FILE 4	
TRACK 4	TRACK 3		FILE 3 FILE 4		FILE 3	
TRACK 5			FILE 5			
TRACK 6			FILE 6			
TRACK 7			FILE 7			- · ·
TRACK 8	Clear All		FILE 8	-	Clear All	
🔳 0:56:18 💽 S	TER.		00:00	₽ 3	OFF	

Audio CD menu

#### Press ►.

The programmed track you selected last is highlighted on the program list.

MP3 menu

# Press $\blacktriangle \nabla$ to select the track you want to start playing.

Press TITLE to move to the next page. Press DISC MENU to move to the previous page.

#### Press PLAY (>) to start.

Playback begins in the order in which you programmed the tracks and "PROG." appears on the menu screen. Playback stops after all of the tracks on the Program list have played once.

To resume normal playback from programmed playback press PROG.PLAY. Select a track of CD (or MP3) list and then press ENTER.

"PROG." indicator disappears in the display window.

# Note

32

The programmed tracks/files are cleared when the power is turned off or the disc is removed.

# Repeat Programmed Tracks/All/Off

- 1 To repeat the track currently playing, press REPEAT. The Repeat Track icon appears on the menu screen.
- 2 To repeat all tracks on the program list, press REPEAT twice. The Repeat All icon appears on the menu screen.
- **3** To cancel Repeat mode, press REPEAT until the Repeat Off icon appears on the menu screen.

#### Erasing a Track/File from the Program List

1 Press PROG. PLAY during playback or in Stop mode to enter Program Edit mode.

The E mark will appear.

## N ote

JPEG files can be programmed only in Stop mode (when the menu screen is displayed.)

- 2 Press ► to move to the Program list.
- 3 Use ▲/▼ to select the track/file you wish to erase from the Program list.
- 4 Press CLEAR.

The track/file will be erased from the Program list.

#### **Erasing the Complete Program List**

- 1 Follow steps 1-2 of "Erasing a Track/File from the Program List" as above.
- 2 Use ▲/▼ to select "Clear All", then press ENTER. The complete Program for the disc will be erased. The programs are also cleared when the disc is removed.

# REFERENCE

# Troubleshooting

Symptom	Cause	Correction
No power.	• The power cord is disconnected.	<ul> <li>Plug the power cord securely into the wall outlet.</li> </ul>
The power is on, but the DVD+VCR does not work.	<ul><li>No disc is inserted.</li><li>No tape is inserted.</li></ul>	• Insert a disc or tape. (Check that the disc or tape indicator is lit on the front panel display.)
No picture.	<ul> <li>The TV is not set to receive DVD+VCR signal output.</li> </ul>	<ul> <li>Select the appropriate video input on the TV so the picture from the DVD+VCR appears on the TV screen.</li> </ul>
	<ul> <li>TV/VCR mode for DVD+VCR is set to TV.</li> </ul>	• Press the TV/VCR button on the remote control repeatedly to choose VCR mode. The TV indicator will disappear on the front panel display.
	The video cable is not connected securely.	Connect the video cable securely.
	• The connected TV power is turned off.	Turn on the TV.
No sound.	<ul> <li>The equipment connected with the audio cable is not set to receive DVD+VCR signal output.</li> </ul>	• Select the correct input on the audio receiver so you can listen to the sound from the DVD+VCR.
	<ul> <li>The audio cables are not connected securely.</li> </ul>	Connect the audio cables securely.
	• The power of the equipment connected with the audio cables is turned off.	• Turn on the equipment connected with the audio cables.
	<ul> <li>The Digital Audio Output is set to the wrong position.</li> </ul>	• Set the Digital Audio Output to the correct position, then turn on the DVD+VCR again by pressing POWER.
The playback picture is	The disc is dirty.	Clean the disc.
poor.	Tape heads are dirty.	Clean video heads.
	<ul> <li>Tape is a rental or was recorded on another VCR.</li> </ul>	<ul> <li>Use TRK (+/-) for manual tracking adjustment while tape is playing.</li> </ul>
The DVD+VCR does not start playback.	<ul><li>No disc is inserted.</li><li>No tape is inserted.</li></ul>	<ul> <li>Insert a disc or tape. (Check that the disc or tape indicator is lit on the front panel display.)</li> </ul>
	• An unplayable disc is inserted.	• Insert a playable disc. (Check the disc type, color system, and Regional code.)
	• The disc is placed upside down.	• Place the disc with the playback side down.
	• The disc is not placed within the guide.	• Place the disc on the disc tray correctly inside the guide.
	The disc is dirty.	Clean the disc.
	<ul> <li>The Rating level is set.</li> </ul>	• Cancel the Rating function or change the rating level.
The remote control does not work properly.	• The remote control is not pointed at the remote sensor on the DVD+VCR.	• Point the remote control at the remote sensor on the DVD+VCR.
	<ul> <li>The remote control is too far from the DVD+VCR.</li> </ul>	Operate the remote control within 23 ft (7 m).
	<ul> <li>There is an obstacle in the path of the remote control and the DVD+VCR.</li> </ul>	Remove the obstacle.
	• The batteries in the remote control are dead.	Replace the batteries with new ones.
	<ul> <li>This remote control uses the same buttons for VCR and DVD functions (ex. PLAY).</li> </ul>	• When using the VCR deck, first press the VCR button. When using the DVD deck, first press the DVD button.

Check the following guide for the possible cause of a problem before contacting service.

# Troubleshooting (Continued)

Symptom	Cause	Correction
Some channels are skipped over when using CH (▲/▼)	• The skipped channels were deleted with the CH. ADD/DEL option.	Use CH. ADD/DEL. to restore channels. See "Channel Selection" on page 15.
Picture and sound of broadcasting channel	<ul> <li>Antenna or cables are loose.</li> </ul>	Tighten connections or replace cable.
are weak or missing.	<ul> <li>Wrong TUNING BAND option is being used.</li> </ul>	<ul> <li>Try all TUNING BAND options. See "Channel Selection" on page 15 for details.</li> </ul>
Camcorder image is not shown.	Camcorder is off.	<ul> <li>Turn camcorder on and operate properly.</li> </ul>
Camcorder image via A/V input to DVD+VCR is not shown on TV screen.	<ul> <li>DVD+VCR SOURCE SELECT is not set to AV.</li> </ul>	<ul> <li>Press INPUT to select LINE input channel (AV).</li> </ul>
Timer recording is not possible.	Clock in DVD+VCR is not set to correct time.	Set clock to correct time. See "Setting the Clock" on page 16.
	<ul> <li>Timer has been programmed incorrectly.</li> </ul>	<ul> <li>Reprogram Timer. See "Timer Recording" on pages 22 and 23.</li> </ul>
	• Ø indicator does not appear after pro- gramming timer.	Reprogram Timer.
<ul> <li>indicator appears after DVD+VCR is turned off.</li> </ul>	DVD+VCR is in Timer Recording mode.	<ul> <li>This is the normal indication that the DVD+VCR is in Timer mode.</li> </ul>
	• TV is not Stereo-compatible.	No action is possible.
Stereo Audio Record and/or Playback is not present.	<ul> <li>Broadcast program is not in stereo for- mat.</li> </ul>	No action is possible.
present.	<ul> <li>DVD+VCR A/V Out jacks are not con- nected to TV A/V In jacks.</li> </ul>	<ul> <li>Make A/V connections. Stereo is available only via A/V output from DVD+VCR.</li> </ul>
	<ul> <li>DVD+VCR Audio/Video Out is not selected for viewing at the TV.</li> </ul>	Select AUX or A/V source as TV input.

Moisture Condensation			
Moisture condensation can occur:	In locations where moisture condensation may occur:		
• When the DVD+VCR is moved from a cold place to a warm place.	Keep the DVD+VCR plugged into an AC power outlet with POWER On. This will help prevent condensation.		
Under extremely humid conditions.	<ul> <li>When condensation has occurred, wait a few hours for the DVD+VCR to dry before using it.</li> </ul>		

# Language Code List

Enter the appropriate code number for the "Disc Audio", "Disc Subtitle" and/or "Disc Menu" settings (see page 18).

Language	Code	Language	Code	Language	Code	Language	Code
Abkhazian	6566	Fiji	7074	Lingala	7678	Singhalese	8373
Afar	6565	Finnish	7073	Lithuanian	7684	Slovak	8375
Afrikaans	6570	French	7082	Macedonian	7775	Slovenian	8376
Albanian	8381	Frisian	7089	Malagasy	7771	Somali	8379
Amharic	6577	Galician	7176	Malay	7783	Spanish	6983
Arabic	6582	Georgian	7565	Malayalam	7776	Sudanese	8385
Armenian	7289	German	6869	Maltese	7784	Swahili	8387
Assamese	6583	Greek	6976	Maori	7773	Swedish	8386
Aymara	6588	Greenlandic	7576	Marathi	7782	Tagalog	8476
Azerbaijani	6590	Guarani	7178	Moldavian	7779	Tajik	8471
Bashkir	6665	Gujarati	7185	Mongolian	7778	Tamil	8465
Basque	6985	Hausa	7265	Nauru	7865	Tatar	8484
Bengali; Bangla	6678	Hebrew	7387	Nepali	7869	Telugu	8469
Bhutani	6890	Hindi	7273	Norwegian	7879	Thai	8472
Bihari	6672	Hungarian	7285	Oriya	7982	Tibetan	6679
Breton	6682	Icelandic	7383	Panjabi	8065	Tigrinya	8473
Bulgarian	6671	Indonesian	7378	Pashto, Pushto	8083	Tonga	8479
Burmese	7789	Interlingua	7365	Persian	7065	Turkish	8482
Byelorussian	6669	Irish	7165	Polish	8076	Turkmen	8475
Cambodian	7577	Italian	7384	Portuguese	8084	Twi	8487
Catalan	6765	Japanese	7465	Quechua	8185	Ukrainian	8575
Chinese	9072	Javanese	7487	Rhaeto-Romanc	e 8277	Urdu	8582
Corsican	6779	Kannada	7578	Romanian	8279	Uzbek	8590
Croatian	7282	Kashmiri	7583	Russian	8285	Vietnamese	8673
Czech	6783	Kazakh	7575	Samoan	8377	Volapük	8679
Danish	6865	Kirghiz	7589	Sanskrit	8365	Welsh	6789
Dutch	7876	Korean	7579	Scots Gaelic	7168	Wolof	8779
English	6978	Kurdish	7585	Serbian	8382	Xhosa	8872
Esperanto	6979	Laothian	7679	Serbo-Croatian	8372	Yiddish	7473
Estonian	6984	Latin	7665	Shona	8378	Yoruba	8979
Faeroese	7079	Latvian, Lettish	7686	Sindhi	8368	Zulu	9085

REFERENCE

# **Country Code List**

Enter the appropriate code number for the "Country Code" setting (see page 20).

Linto	
Code	Country
AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AN	Netherlands Antilles
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AZ	Azerbaidjan
BA	Bosnia-Herzegovina
BB	Barbados
BD	Bangladesh
	•
BE	Belgium
BF	Burkina Faso
BG	Bulgaria
BH	Bahrain
BI	Burundi
BJ	Benin
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
ΒZ	Belize
CA	Canada
CC	Cocos (Keeling) Islands
CF	Central African Republic
CG	Congo
СН	Switzerland
CI	Ivory Coast
СК	Cook Islands
CL	Chile
CM	Cameroon
CN	China
	Colombia
CR	Costa Rica
CS	Former Czechoslovakia
	Cuba
	Cape Verde
CX	Christmas Island
CY	
CZ	Cyprus
	Czech Republic
DE	Germany
DJ	Djibouti
DK	Denmark
DM	Dominica
DO	Dominican Republic
DZ	Algeria
EC	Ecuador
EE	Estonia
EG	Egypt
EH	Western Sahara

ER       Eritrea         ES       Spain         ET       Ethiopia         FI       Finland         FJ       Fiji         FK       Falkland Islands         FM       Micronesia         FO       Faroe Islands         FR       France         FX       France (European Territory)         GA       Gabon         GB       Great Britain         GD       Grenada         GE       Georgia         GF       French Guyana         GH       Ghana         GI       Gibraltar         GL       Greenland         GM       Gambia         GN       Guinea         GP       Guadeloupe (French)         GQ       Equatorial Guinea         GR       Greece         GS       S. Georgia & S. Sandwich Isls.         GT       Guatemala         GU       Guam (USA)         GW       Guinea Bissau         GY       Guyana         HK       Hong Kong         HM       Heard and McDonald Islands         HN       Honduras         HR       Croatia     <		
ESSpainETEthiopiaFIFinlandFJFijiFKFalkland IslandsFMMicronesiaFOFaroe IslandsFRFranceFXFrance (European Territory)GAGabonGBGreat BritainGDGrenadaGEGeorgiaGFFrench GuyanaGHGhanaGIGibraltarGLGreenlandGMGambiaGNGuineaGPGuadeloupe (French)GQEquatorial GuineaGRGreeceGSS. Georgia & S. Sandwich Isls.GTGuatemalaGUGuatemalaGUGuatemalaGUGuatemalaGUGuatemalaGUGuatemalaGUGuyanaHKHong KongHMHeard and McDonald IslandsHNHondurasHRCroatiaHTHaitiHUHungaryIDIndonesiaIEIrelandILIsraelINIndiaIOJordanJPJapanKEKenyaKGKyrgyzstanKHCambodia6KIKiribatiKMComorosKNSaint Kitts & Nevis AnguillaKPNorth KoreaKWKuwaitKYCayman IslandsKZKazakhstan <t< th=""><th>Code</th><th>Country</th></t<>	Code	Country
FTEthiopiaFIFinlandFJFijiFKFalkland IslandsFMMicronesiaFOFaroe IslandsFRFranceFXFrance (European Territory)GAGabonGBGreat BritainGDGenadaGEGeorgiaGFFrench GuyanaGHGhanaGIGibraltarGLGreenlandGMGambiaGNGuineaGPGuadeloupe (French)GQEquatorial GuineaGRGreeceGSS. Georgia & S. Sandwich Isls.GTGuatemalaGUGuam (USA)GWGuinea BissauGYGuyanaHKHong KongHMHeard and McDonald IslandsHNHondurasHRCroatiaHTHaitiHUHungaryIDIndonesiaIEIrelandILIsraelINIndiaIOJordanJPJapanKEKenyaKGKyrgyzstanKHCambodia6KIKiribatiKMComorosKNSaint Kitts & Nevis AnguillaKPNorth KoreaKWKuwaitKYCayman IslandsKZKazakhstanLALaos	ER	Eritrea
FIFinlandFJFijiFKFalkland IslandsFMMicronesiaFOFaroe IslandsFRFranceFXFrance (European Territory)GAGabonGBGreat BritainGDGenadaGEGeorgiaGFFrench GuyanaGHGhanaGIGibraltarGLGreenlandGMGambiaGNGuineaGPGuadeloupe (French)GQEquatorial GuineaGRGreeceGSS. Georgia & S. Sandwich Isls.GTGuatemalaGUGuam (USA)GWGuinea BissauGYGuyanaHKHong KongHMHeard and McDonald IslandsHNHondurasHRCroatiaHTHaitiHUHungaryIDIndonesiaIEIrelandILIsraelINIndiaIOJordanJPJapanKEKenyaKGKyrgyzstanKHCambodia6KIKiribatiKMComorosKNSaint Kitts & Nevis AnguillaKPNorth KoreaKWKuwaitKYCayman IslandsKZKazakhstanLALaos		Spain
FJFijiFKFalkland IslandsFMMicronesiaFOFaroe IslandsFRFranceFXFrance (European Territory)GAGabonGBGreat BritainGDGenadaGEGeorgiaGFFrench GuyanaGHGhanaGIGibraltarGLGreenlandGMGambiaGNGuineaGPGuadeloupe (French)GQEquatorial GuineaGRGreeceGSS. Georgia & S. Sandwich Isls.GTGuatemalaGUGuam (USA)GWGuinea BissauGYGuyanaHKHong KongHMHeard and McDonald IslandsHNHondurasHRCroatiaHTHaitiHUHungaryIDIndonesiaIEIrelandILIsraelINIndiaIOJordanJPJapanKEKenyaKGKyrgyzstanKHCambodia6KIKiribatiKMComorosKNSaint Kitts & Nevis AnguillaKPNorth KoreaKWKuwaitKYCayman IslandsKZKazakhstanLALaos	ET	Ethiopia
FKFalkland IslandsFMMicronesiaFOFaroe IslandsFRFranceFXFrance (European Territory)GAGabonGBGreat BritainGDGrenadaGEGeorgiaGFFrench GuyanaGHGhanaGIGibraltarGLGreenlandGMGambiaGNGuineaGPGuadeloupe (French)GQEquatorial GuineaGRGreeceGSS. Georgia & S. Sandwich Isls.GTGuatemalaGUGuam (USA)GWGuinea BissauGYGuyanaHKHong KongHMHeard and McDonald IslandsHNHondurasHRCroatiaHTHaitiHUHungaryIDIndonesiaIEIrelandILIsraelINIndiaIOBritish Indian Ocean TerritoryIQIraqIRIranISIcelandITItalyJMJamaicaJOJordanJPJapanKEKenyaKMComorosKNSaint Kitts & Nevis AnguillaKPNorth KoreaKWKuwaitKYCayman IslandsKZKazakhstanLALaos	FI	Finland
FMMicronesiaFOFaroe IslandsFRFranceFXFrance (European Territory)GAGabonGBGreat BritainGDGrenadaGEGeorgiaGFFrench GuyanaGHGhanaGIGibraltarGLGreenlandGMGambiaGNGuineaGPGuadeloupe (French)GQEquatorial GuineaGRGreeceGSS. Georgia & S. Sandwich Isls.GTGuatemalaGUGuam (USA)GWGuinea BissauGYGuyanaHKHong KongHMHeard and McDonald IslandsHNHondurasHRCroatiaHTHaitiHUHungaryIDIndonesiaIEIrelandILIsraelINIndiaIOBritish Indian Ocean TerritoryIQIraqIRIranISIcelandITItalyJMJamaicaJOJordanJPJapanKEKenyaKICambodia6KIKiribatiKMComorosKNSaint Kitts & Nevis AnguillaKPNorth KoreaKWKuwaitKYCayman IslandsKZKazakhstanLALaos	FJ	Fiji
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JM Jamaica JO Jordan JP Japan KE Kenya KG Kyrgyzstan KH Cambodia6 KI Kiribati KM Comoros KN Saint Kitts & Nevis Anguilla KP North Korea KR South Korea KR South Korea KW Kuwait KY Cayman Islands KZ Kazakhstan LA Laos	IS	Iceland
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KH       Cambodia6         KI       Kiribati         KM       Comoros         KN       Saint Kitts & Nevis Anguilla         KP       North Korea         KR       South Korea         KW       Kuwait         KY       Cayman Islands         KZ       Kazakhstan         LA       Laos	KG	
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KY Cayman Islands KZ Kazakhstan LA Laos		
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LA Laos		
	LD	LEDAHUH

Code	Country
LC	Saint Lucia
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
	Latvia
LY	Libya
MA MC	Morocco Monaco
MD	Moldavia
MG	Madagascar
MH	Marshall Islands
MK	Macedonia
ML	Mali
MM	Myanmar
MN	Mongolia
МО	Macau
MP	Northern Mariana Islands
MQ	Martinique (French)
MR	Mauritania
MS	Montserrat
MT	Malta
MU	Mauritius
MV	Maldives
MW	Malawi
MX	Mexico
MY	Malaysia
MZ	Mozambique
NA	Namibia
NC	New Caledonia (French)
NE	Niger
NF	Norfolk Island
NG	Nigeria
NI	Nicaragua
NL	Netherlands
NO	Norway
NP	Nepal
NR	Nauru
NU NZ	Niue New Zealand
OM	Oman
PA	Panama
PE	Peru
PF	Polynesia (French)
PG	Papua New Guinea
PH	Philippines
PK	Pakistan
PL	Poland
PM	Saint Pierre and Miquelon
PN	Pitcairn Island
PR	Puerto Rico
PT	Portugal
PW	Palau
PY	Paraguay
QA	Qatar
RE	Reunion (French)
RO	Romania
RU	Russian Federation
RW	Rwanda
SA	Saudi Arabia
SB	Solomon Islands

Code	Country
SC	Seychelles
SD	Sudan
SE	Sweden
SG	Singapore
SH	Saint Helena
SI	Slovenia
SJ	Svalbard and Jan Mayen
	Islands
SK	Slovak Republic
SL	Sierra Leone
SM	San Marino
SN	Senegal
SO	Somalia
SR	Suriname
ST	Saint Tome and Principe
SU	Former USSR
SV	El Salvador
SY	Syria
SZ	Swaziland
TC	Turks and Caicos Islands
TD	Chad
TF	French Southern
	Territories
TG	Тодо
TH	Thailand
TJ	Tadjikistan
ТК	Tokelau
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TP	East Timor
TR	Turkey
TT	Trinidad and Tobago
TV	Tuvalu
TW	Taiwan
TZ	Tanzania
UA	Ukraine
UG	Uganda
UK	United Kingdom
UM	USA Minor Outlying
UN	Islands
US	United States
	Uruguay
	Uzbekistan
VA	Vatican City State
VA	Saint Vincent &
vO	
VE	Grenadines Venezuela
VE VG	Virgin Islands (British)
	Virgin Islands (USA)
VI	Virgin Islands (USA)
VIN	Vanuatu
WF	Wallis and Futuna Islands
WS	Samoa
YE	Yemen
YE YT	
YU	Mayotte
ZA	Yugoslavia South Africa
ZAZM	
ZNI	Zambia Zaire
ZW	Zaire
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# Specifications

#### General

Power requirements	AC 120V, 60 Hz
Power consumption	23W
Dimensions (approx.)	430 X 97.5 X 293 mm (16.9 x 3.9 x 11.5 inches) (w x h x d)
Weight (approx.)	4.8 kg (10.58 lbs)
Operating temperature	5°C to 40°C (41°F to 104°F)
Operating humidity	5% to 90%
Signal system	NTSC

#### Inputs

ANTENNA IN	Antenna or CATV input, 75 ohms
VHS VIDEO IN	1 Vp-p 75 ohms, sync negative, RCA jack x 1
VHS AUDIO IN	-6.0 dBm more than 47 ohms, RCA jack x 1

#### Outputs

1 Vp-p 75 ohms, sync negative
(Y) 1.0 V (p-p), 75 ohms, negative sync, Mini DIN 4-pin x 1
(C) 0.3 V (p-p) 75 ohms
0.5 V (p-p), 75 ohms, RCA jack x 1
2.0 Vrms (1 KHz, 0 dB), 330 ohms, RCA jack (L, R) x 1
Channel 3 or 4

#### VCR Specifications

VIDEO S-VIDEO

Head system	Four head helical scan azimuth system
Timer	12-hour display type with AM, PM
Tape speed	SP: 33.35 mm/sec, LP: 16.67 mm/sec, SLP: 11.12 mm/sec
Tape width	12.7 mm
Maximum recording time	SP: 2 HOURS (T-120), SLP: 6 HOURS (T-120), 8 HOURS (T-160)
Rewind time	About 3 minutes (T-120)
Antenna	75 ohms (VHF/UHF)
VHF output signal	Channel 3 or 4 (Switchable)
Channel coverage	VHF: 2-13, UHF: 14-69, CATV: 1-125 (4A, A-W, W+1 - W+84, A-5 - A-1)
Frequency range	20Hz to 20kHz
Signal-to-noise ratio	More than 43dB
Dynamic range	More than 88 dB
Channel separation	More than 60 dB
Specifications	

#### **DVD Specifications**

Laser system Frequency response	Semiconductor laser, wavelength 650 nm DVD (PCM 96 kHz): 8 Hz to 44 kHz, DVD (PCM 48 kHz): 8 Hz to 22 kHz CD: 8 Hz to 20 kHz
Signal-to-noise ratio	More than 100dB (ANALOG OUT jacks only)
Harmonic distortion	Less than 0.008%
Dynamic range	More than 95 dB (DVD/CD)

#### Accessories:

Video cable x 1, Audio cable x 1, RF 75-ohm Coaxial Cable x 1, Remote control x 1, Batteries (AAA) x 2

• Design and specifications are subject to change without prior notice.

# LIMITED WARRANTY

#### GOVIDEO DVD+VCR LIMITED WARRANTY

#### Who Provides the Limited Warranty

During the warranty period, the GoVideo Warranty Administrator will honor DVD+VCR service for 90 days labor, 1 year parts from the original date of consumer purchase. See below for Commercial, Industrial or Educational use coverage. The DVD+VCR remote control is warranted for 90 days from the date of purchase.



#### Who is Protected

This warranty protects the original consumer owner of this GoVideo product.

#### What is Covered and How Long

This warranty covers internal operating parts and service/labor to repair or replace covered parts in this GoVideo product for 90 days labor, 1 year parts, from the date of purchase, defined as follows: (1) Original Consumer Retail Purchase; (2) First Rental Purchase Agreement; or (3) First Lease Purchase Agreement (the "Warranty Period"). Labor and replacement parts supplied during the Warranty Period are covered only for the remaining portion of the original Warranty Period. The GoVideo Warranty Administrator shall have no liability for service under this warranty if non-OEM (Original Equipment Manufacturer) replacement parts are used in the repair of your GoVideo product.

#### What the Owner Must Do If Service is Required

If service under this warranty is required, log onto "www.govideo.com" to determine the nearest authorized GoVideo service center.

#### **Other Warranty Coverage**

Commercial, Industrial or Educational use has the same warranty coverage as stated in this warranty.

#### What are the Exceptions

This warranty does not cover: (1) Normal maintenance service, such as video head cleaning. (2) Damage from misuse, abuse, neglect or accident, natural disasters or Acts of God. (3) Cabinetry, decorative parts, A/C adapters, knobs or buttons. (4) The foreign country use of this product. (5) GoVideo product which has been electronically or mechanically modified in any way or incorporated into other products. (6) Installation and setup service adjustments. (7) Owner instruction. Your Owner's Guide provides information regarding operating instructions and user controls. For additional information, contact your authorized GoVideo dealer.

Go Video is not responsible for any shipping, handling or insurance charges.

This Exclusive Limited Warranty excludes all incidental and consequential damages. Some states do not allow the exclusion of incidental and consequential damages, so the above exclusion may not apply to you.

ALL IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY PERIOD. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This Exclusive Limited Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

#### GoVideo WARRANTY ADMINISTRATOR

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